UNIT 1 BENCHMARK

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| **UNIT ASSESSMENT ALIGNMENT GUIDE** | | | | | |
| **Learning Goal #** | **Learning Goal** | **Aligned Item #’s** | **Points Correct** | **Points Possible** | **Grade**  (%) |
| **RM.1** | **Understand and apply the basic rules addition, subtraction, multiplication, division with negative numbers** | **1 - 8** |  | **8** |  |
| **RM.2** | **Operate with negative numbers & fractions** | **9 – 12**  **36 - 40** |  | **4**  **10** |  |
| **RM.3** | **Understand the relationship between fractions, decimals, and percents and be able to convert from one to another** | **13 - 16** |  | **8** |  |
| **RM.4** | **Locate any number, including fractions, decimals, and negatives, on a number line** | **17 - 20** |  | **4** |  |
| **RM.5** | **Understand and define the role of a variable** | **21 - 23** |  | **3** |  |
| **RM.6** | **Find the area, perimeter, and volume of squares and rectangles** | **24 – 29** |  | **6** |  |
| **RM.7** | **Apply Order of Operations** | **30** |  | **2** |  |
| **RM.8** | **Substitute values for a given variable** | **31 - 35** |  | **5** |  |
| ***TOTAL:*** | | |  | **50** |  |

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| *WORD BANK:*  A) Positive  B) Negative  **Matching** (use terms more than once)**:**  1) A negative times a negative is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  2) A negative times a positive is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  3) A positive times a positive is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  4) A positive times a negative is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  5) A positive divided by a negative is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  6) A negative divided by a positive is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  7) A positive divided by a positive is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  8) A negative divided by a positive is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  9) 4(-3) = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10) -6(-2) = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  11) -10/-5 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 12) -8/4 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Complete the Fraction 🡪 Decimal 🡪 Percent chart below   |  |  |  |  | | --- | --- | --- | --- | |  | Fraction | Decimal | Percent | | 13 | 1/4 |  |  | | 14 |  | .8 |  | | 15 |  |  | 45% | | 16 | 3/7 |  |  | |
| **B**  | | | | | | | | | | | | | |  0 1 2 3 4 5 6 7  –6 –5 –4 –3 –2 –1  17)    What is the best estimate of coordinate B?  A. -3 B. 3 C. -2.75 D. -2  S M D  | | | | | | | | | | | | | |  0 1 2 3 4 5 6 7  –6 –5 –4 –3 –2 –1  18)  What point represents 3.25?  A. Point M B. Point D C. Point S D. None of the above  19) Which point on the number line is closest to **−**2 7/16?  A B C D  -3 -2 -1 0 1 2 3  **A** Point A **B** Point B **C** Point C **D** Point D  S M D  | | | | | | | | | | | | | |  0 1 2 3 4 5 6 7  –6 –5 –4 –3 –2 –1  20)  What point represents ½ ?  A. Point M B. Point D C. Point S |
| 21) A variable is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ A) number B) symbol C) letter D) picture  22) that represents a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ A) number B) symbol C) letter D) picture  23) True of False: The only variable that can be used is x A) True B) False |
| A = L x W P = L + L + W + W  18  Find the area and perimeter of the figure to the right 🡪  7  24) Area = A) 50 B) 25 C) 126 D) 49  25 ) Perimeter = A) 50 B) 25 C) 126 D) 49    V = L x W x H  26) Find the volume of the cube to the right 🡪  8  A) 32 B) 23 4  C) 88 D) 352 11  27) What is the **area**, in square centimeters (cm2), of the rectangle shown below?  **A** 29.4cm2  12.5 cm  **B** 27.5cm2  **C** 14.7cm2 2.2 cm  **D** 13.8cm2        28) Mario has a rectangular yard that is 24 feet long and 50 feet wide. What is the  **perimeter** of the yard, in feet?    **A** 74 feet **C** 148 feet  **B** 124 feet **D** 1,200 feet  29) A swimming pool has a width of 14 feet, a length of 36 feet, and a height of 8 feet. What is the total **volume** of water it can hold, in feet3?  **A)**  504 **B)** 288  **C)** 58  **D)** 4032 |
| 30) **Simplify:** ( 4 + 2 )2 – 5 ● 2 + 6  **A.** 2 **C.** – 4  **B.** 32 **D.** 28  31) What is the value of 5 + 2 – 2y when y = 5?  **A.** – 2 **C.** – 3  **B.** 17 **D.** 10  32) What is the value of 3a + 4 – 6c when a = -2 and c = 1?  **A.** 8 **C.** 4  **B.** – 89 **D.** – 8  33) Evaluate 8b3 when b = 2.  **A.** 8 **C.** 48  **B.** 16 **D.** 64  34) Evaluate (4 + a)2 – 4y when a = 2 and y = 4.  **A.** – 4 **C.** – 10  **B.** 24 **D.** 20  35) Evaluate 3ax2 - 5 when a = 4 and x = 2    **A.** 43 **C.** 83  **B.** – 10 **D.** 30 |
| 36) -3 ½ + ¾ = \_\_\_\_\_\_\_\_\_\_\_  37) ¾ - 1 ½ = \_\_\_\_\_\_\_\_\_  38) 3 + - 1 ¾ = \_\_\_\_\_\_\_\_  39) 5 ¼ + ½ = \_\_\_\_\_\_\_\_  40) 2 ¼ ÷ ½ = \_\_\_\_\_\_\_\_ |